



REPLY TO  
ATTENTION OF

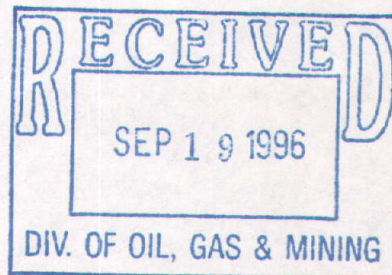
DEPARTMENT OF THE ARMY  
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO  
CORPS OF ENGINEERS  
1325 J STREET  
SACRAMENTO, CALIFORNIA 95814-2922

File  
m/059/002

January 9, 1996

Regulatory Branch (GP-31) 199650003

M.J. Reynolds  
Great Salt Lake Minerals Corporation  
765 North 10500 West  
P.O. Box 1190  
Ogden, Utah 84404



Dear Mr. Reynolds:

This letter is in response to your application for the construction of a dike located landward of the existing West Solar Pond Dike. The purpose of the dike is to prevent runoff water from entering Great Salt Lake Mineral's west evaporation pond. The project is located on the North Arm of the Great Salt Lake at Strongs Knob by the town of Lake Side.

Your project has been reviewed in accordance with Section 404 of the Clean Water Act under which the U.S. Army Corps of Engineers regulates the discharge of dredged and fill material and excavation in waters of the United States including wetlands. Based on the information provided it appears that the project would involve such discharges.

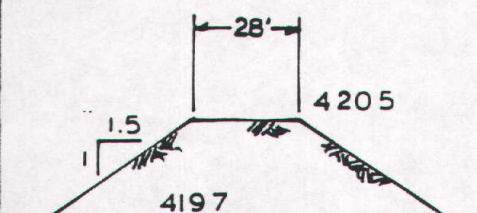
General Permit 031 has been issued which authorizes the discharges associated with raising and widening existing dikes, new dike construction within the confines of previously existing dikes, dike stabilization work, construction and maintenance of drainage canals and feeder ditches. Discharges associated with expanding solar ponds lakeward of existing dikes are not authorized by this general permit. This project may be covered under this authorization provided that the conditions listed on the enclosed information sheet are followed. Failure to satisfy these conditions invalidates the authorization and may result in a violation of the Clean Water Act.

Thank you for your interest in our nations water resources and we would appreciate receiving information about other future projects. If you have any questions, please contact Mr. Anthony Vigil, at the Utah Regulatory Office, 1403 South 600 West, Suite A, Bountiful, Utah 84010, telephone (801) 295-8380.

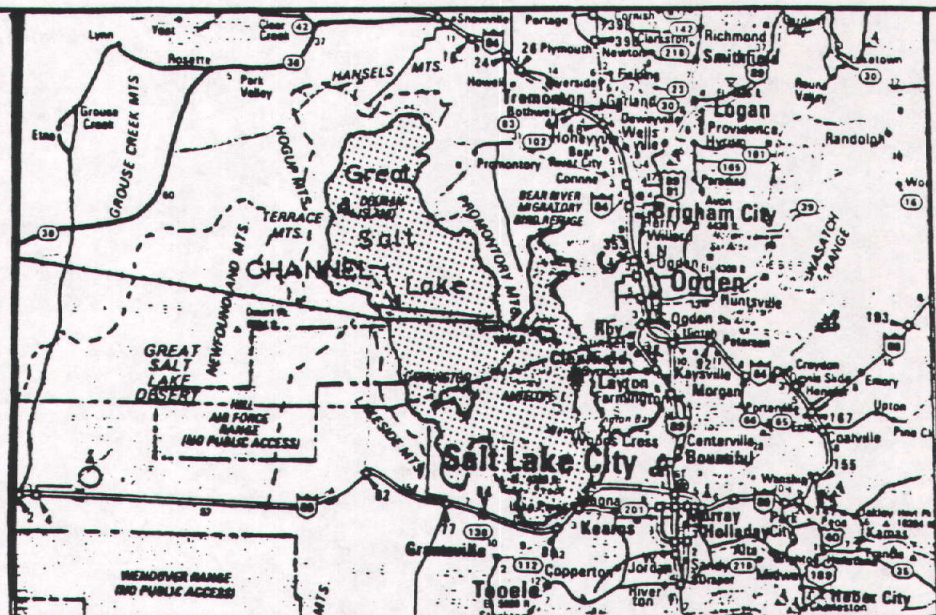
Sincerely,

*Michael A. Schwinn*  
for Michael A. Schwinn  
Chief, Utah Regulatory Office

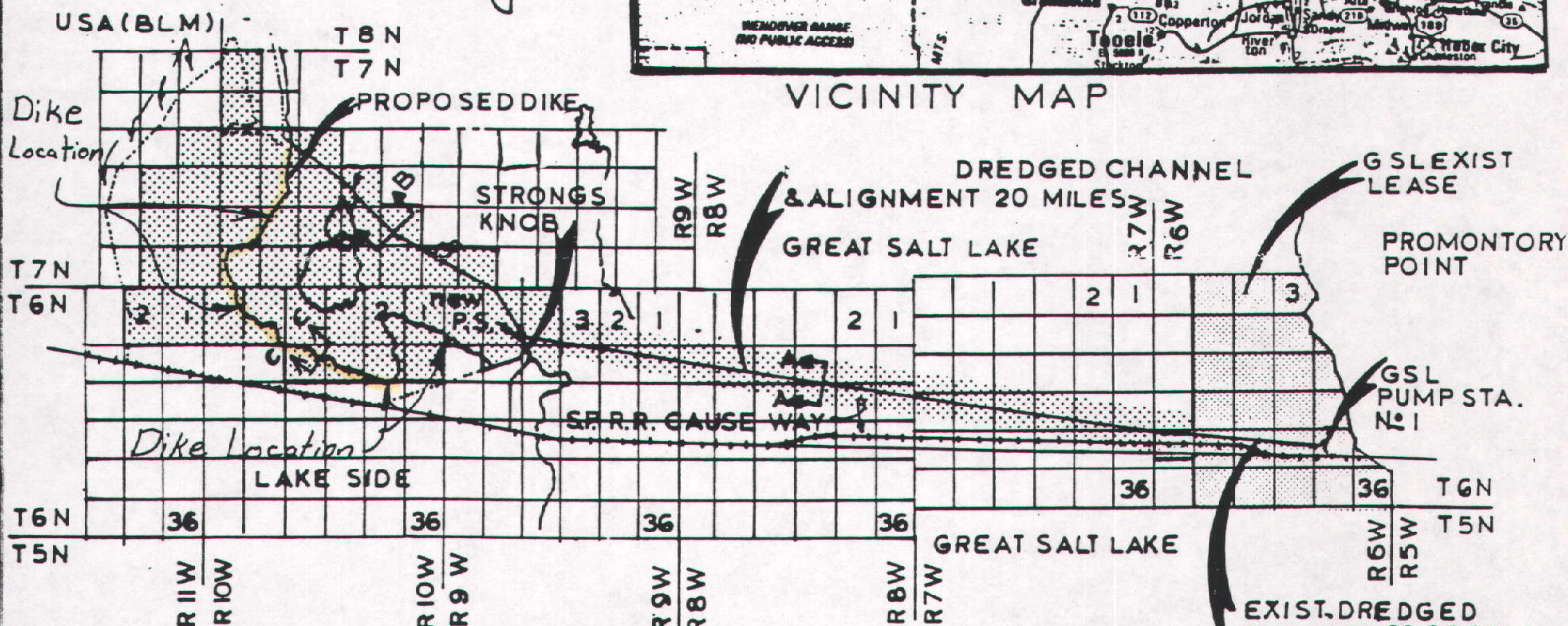
Enclosure



LENGTH OF DIKE APPROX  
8.5 MILES LONG  
SECTION B-B



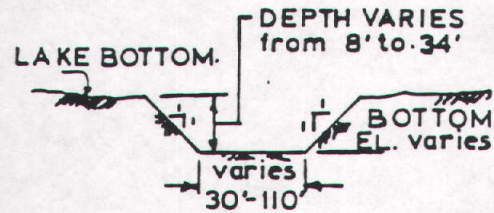
VICINITY MAP



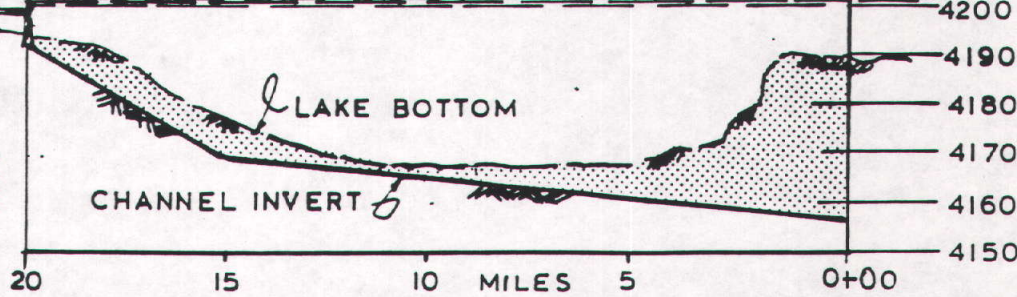
PLAN

NEW POND  
AND PUMP  
STATION

NORTH ARM OF GREAT SALT LAKE  
APPROX. WATER SURFACE ELEV. 4201.0



SECTION A-A



PROFILE

PURPOSE: TO DREDGE UNDER  
WATER CHANNEL AND BUILD DIKES  
ADJACENT PROPERTY OWNERS  
1 STATE OF UTAH  
2 SOUTHERN PACIFIC R.R.  
3 U.S.A. (BLM)  
4 PROM. CACHE DEVELOPMENT  
5 SANDERS BRINE SHRIMP PRO

PLAN & PROFILE  
AND CROSS SECTION



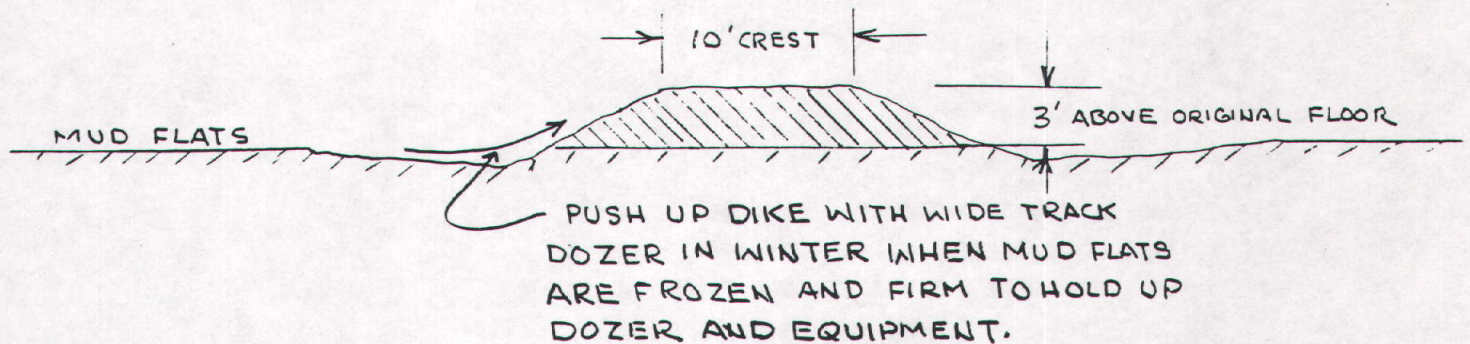
PROPOSED DREDGED CHANNEL  
IN THE NORTH ARM OF THE GREAT  
SALT LAKE IN BOX ELDER COUNTY  
UTAH. FOR: GREAT SALT LAKE-  
MINERALS & CHEMICALS CORP.

DWG No 910108 SH. 1 of 1

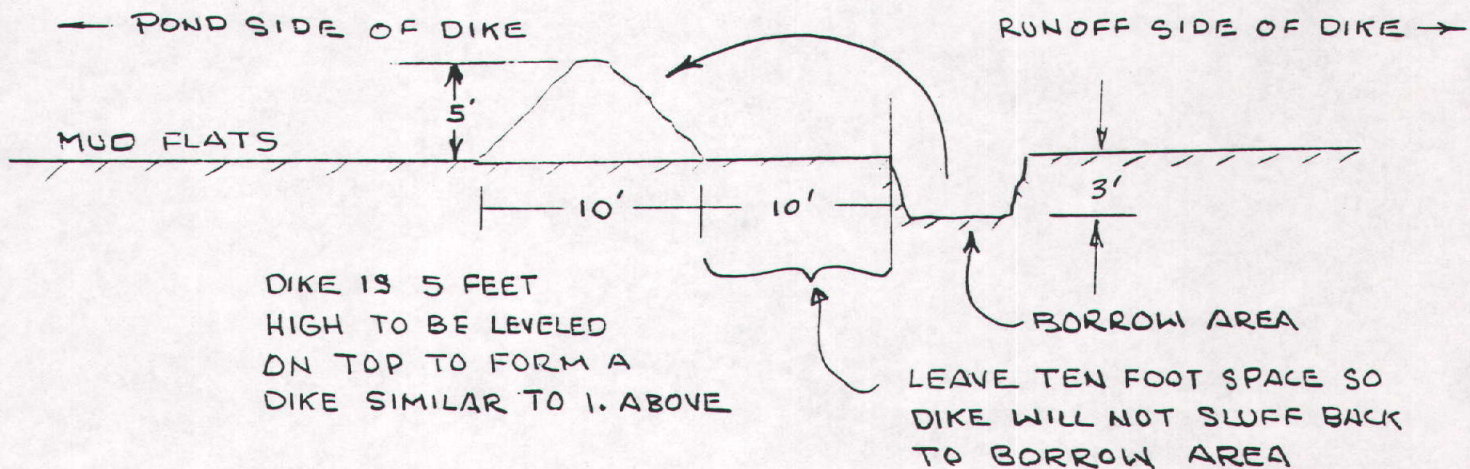
# CROSS SECTION OF BARRIER DIKES

## Section C-C

### 1. LOCAL MATERIAL PUSHED BY DOZER



### 2. LOCAL MATERIAL STACKED BY BACKHOE (EXCAVATOR)



### NOTE:

USE PROCEDURE 1 WHEN POSSIBLE BECAUSE IT IS FASTER AND CHEAPER. IF GROUND IS TOO SOFT FOR THE DOZER, USE A BACKHOE ON MATS, PROCEDURE 2.

DOGA RECEIVED  
SEPT. 19, 1996

M/057/002

## DEPARTMENT OF THE ARMY PERMIT

Permittee: Great Salt Lake Minerals Corporation

Permit No: 199550289

Issuing Office: U.S. Army Corps of Engineers, Sacramento District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform the work in accordance with the terms and conditions specified below.

**Project Description:** The plans for this project indicate that Great Salt Lake Minerals will excavate a canal within the substrate of the North Arm of the Great Salt Lake. The canal will extend across exposed lake sediments and open water from the north end of Clymer Bay to open water, providing a connection with lake surface waters. The work will be done in stages. The canal will be approximately 10 feet deep, 10 to 20 feet wide and 18,750 feet long. Excavation will be done as needed to maintain a connection with surface water and brine. Approximately 69,000 cubic yards of excavated spoil material would be deposited on the existing exposed lake sediments approximately 10 feet from the new canal and placed continuously for 1000 feet alternately on each side of the canal. Approximately 25 acres of lake bed would be impacted with this project.

**Project Location:** The project is located by the west shore of the Great Salt Lake in Box Elder County and approximately 20 miles west of Promontory Point.

### Permit Conditions:

#### General Conditions:

1. The time limit for completing the work authorized ends on August 31, 1998. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being accomplished in accordance with the terms and conditions of your permit.

**Special Conditions:**

N/A

**Further Information:**

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

( ) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

(X) Section 404 of the Clean Water Act (33 U.S.C. 1344).

( ) Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
- c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
- d. Design or construction deficiencies associated with the permitted work.
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

- a. You fail to comply with the terms and conditions of the permit.
- b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
- c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

M. J. Reynolds  
(PERMITTEE)

Aug 1, 1995  
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below. (This permit is issued for and in behalf of Colonel John N. Reese, District Engineer).

H. Brooks Carter  
H. BROOKS CARTER  
Chief, Intermountain Regulatory Section

8/1/95  
(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

\_\_\_\_\_  
(TRANSFEREE)

\_\_\_\_\_  
(DATE)